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PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABLITY

(Chapter II of the Patent Cooperation Treats)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER ACT	TON	See Form PCT/IPEA/416		
PATENT100504					
International application No.	International filing date (d	ay/month/year)	Priority date (day/month/year)		
PCT/US04/14519	10 May 2004 (10.05.2004		12 May 2003 (12.05.2003)		
International Patent Classification (IPC)		IPC			
IPC(7): E21B 43/00 and US Cl.: 166/245, 268; 703/10					
Applicant					
HERBERT STONE					
1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.					
2. This REPORT consists of a total of 3 sheets, including this cover sheet.					
3. This report is also accompanied by ANNEXES, comprising:					
a. (sent to the applicant and to the International Bureau) a total of sheets, as follows:					
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).					
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.					
b. (sent to the Interna	tional Bureau only) a tota	of (indicate type ar	nd number of electronic carrier(s))		
, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).					
4. This report contains indica	ations relating to the follow	wing items:			
4. This report contains indications relating to the following items: Box No. I Basis of the report					
	iority				
	on-establishment of opinion with regard to novelty, inventive step and industrial plicability				
Box No. IV L	ck of unity of invention				
Box No. V R	easoned statement under Article 35(2) with regard to novelty, inventive step or dustrial applicability; citations and explanations supporting such statement				
Box No. VI C	ertain documents cited				
Box No. VII C	ertain defects in the international application				
Box No. VIII C	ertain observations on the international application				
Date of submission of the demand		Date of completion	of this report		
21 January 2005 (21.01.2005)		15 April 2005 (15.04	.2005)		
Name and mailing address of the IPEA/ US		Authorized officer	4.2 1		
Mail Stop PCT, Attn: IPEA/US Commissioner for Patents		George Suchfield	muttofer		
P.O. Box 1450 Alexandria, Virginia 22313-1450			. 🔰		
Facsimile No. (703) 305-3230		Telephone No. 571-	272-7036		

Form PCT/IPEA/409 (cover sheet)(January 2004)

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.	
PCT/US04/14519	

Box No. I Basis of the report				
 With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item. 				
This report is based on translations from the original language into the following language, which is the language of a translation furnished for the purposes of:				
international search (under Rules 12.3 and 23.1(b))				
publication of the international application (under Rule 12.4)				
international preliminary examination (under Rules 55.2 and/or 55.3)				
2. With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):				
the international application as originally filed/furnished				
the description:				
pages 1-25 as originally filed/furnished pages* NONE received by this Authority on				
pages* NONE received by this Authority on				
the claims:				
pages 26-28 as originally filed/furnished				
pages* NONE as amended (together with any statement) under Article 19				
pages* NONE received by this Authority on				
pages* NONE received by this Authority on				
the drawings:				
pages 1-10 as originally filed/furnished				
pages* NONE received by this Authority on pages* NONE received by this Authority on				
a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.				
3. The amendments have resulted in the cancellation of:				
the description, pages				
the claims, Nos.				
the drawings, sheets/figs				
the sequence listing (specify):				
any table(s) related to the sequence listing (specify):				
4. This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).				
the description pages				
the description, pages				
the claims, Nos the drawings, sheets/figs				
the sequence listing (specify):				
any table(s) related to the sequence listing (specify):				
* If item 4 applies, some or all of those sheets may be marked "superseded."				

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. INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/US04/14519

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
1. Statement		-			
Novelty (N)	Claims 1-20	YES			
	Claims NONE	NO			
Inventive Step (IS)	Claims 1-20	YES			
	Claims NONE	NO			
Industrial Applicability (IA)	Claims 1-20	YES			
,	Claims NONE	NO			
intervals below water injection intervals, decreasing water computer simulations. Claims 1-20 meet the criteria set out in PCT Article 33(4) be made or used in industry.)-(3), because the prior art does not teach or fairly suggest gas inject injection rates, or selecting rate and times of gas and water injection rates, or selecting rate and times of gas and water inject), and thus have industrial applicability because the subject matter	ction based on			
NEW CITATIONS					

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